

Figure 1

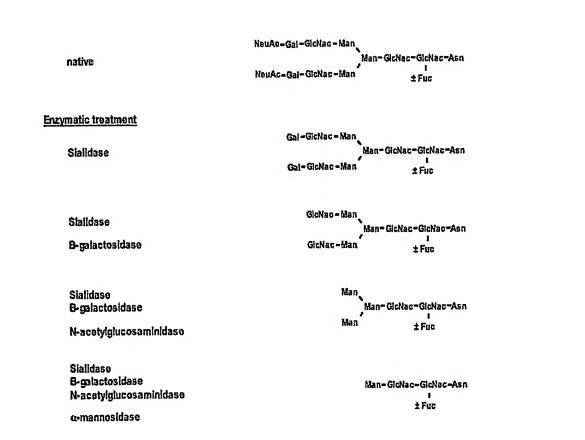


Figure 2



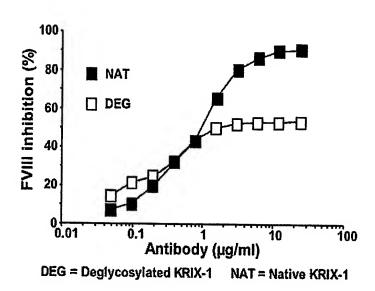


Figure 3

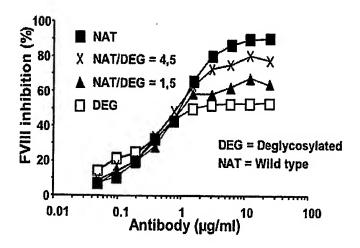


Figure 4



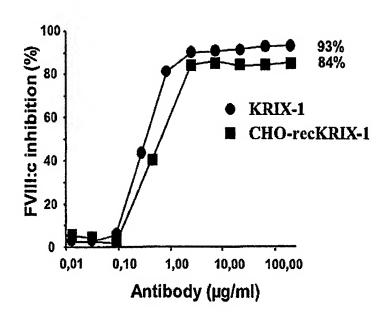


Figure 5

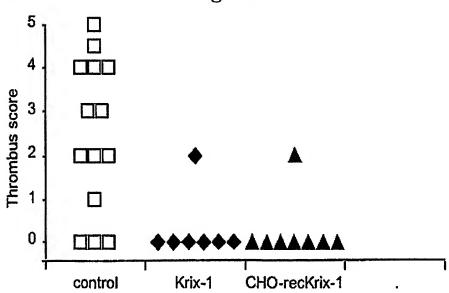


Figure 6

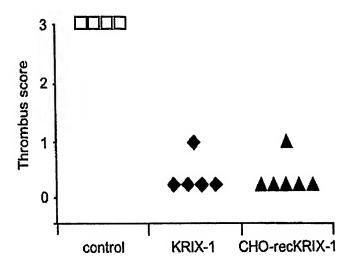


Figure 7

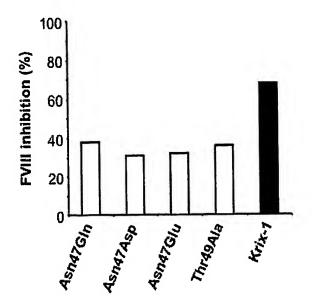


Figure 8

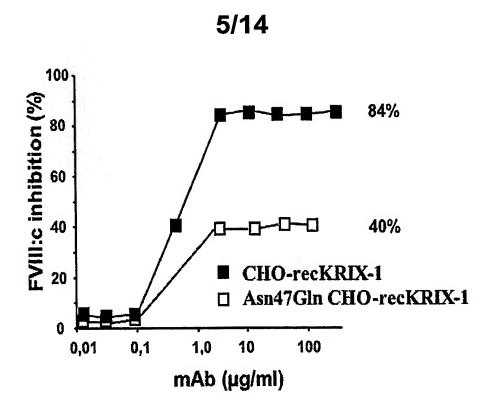


Figure 9

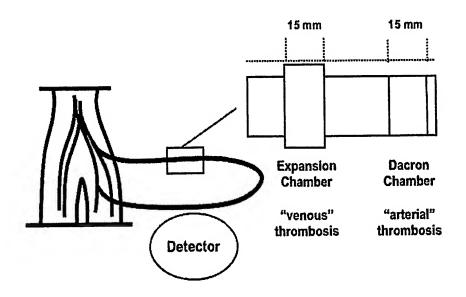


Figure 10

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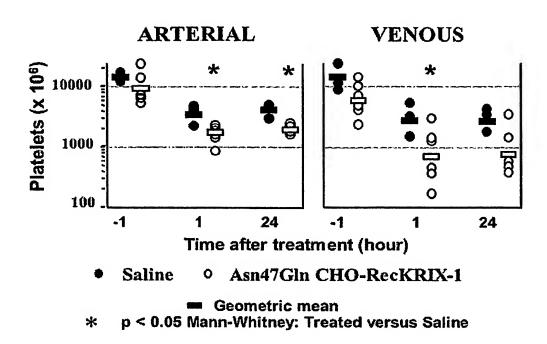


Figure 11

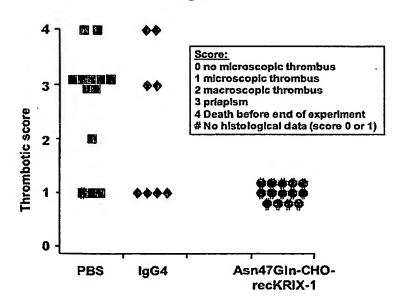
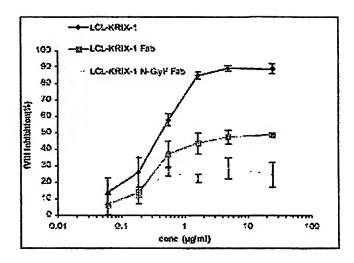
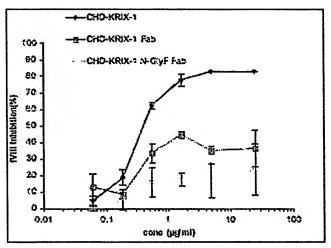
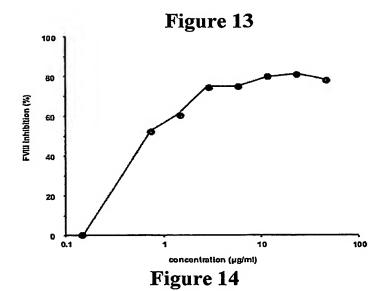


Figure 12

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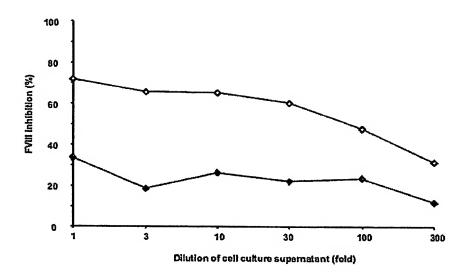


Figure 15

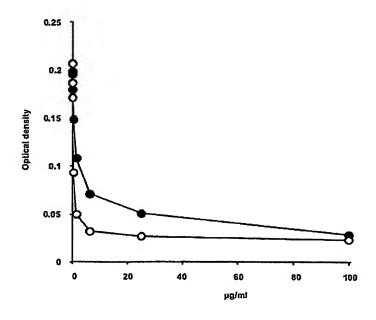


Figure 16

9/14

Krix-1 Variable heavy chain (SEQ ID NO: 1 and 2)

```
1/1
                           31/11
ATG GAC TGG ACC TGG AGG ATC CTC TTC TTG GTG GCA GCC ACA GGA GCC CAC TCC CAG
M D W T W R I L F L V A A A T G A H S Q
                           91/31
GTG CAA CTG GTG CAA TCT GGG GCT GAG GTG AAG AAG CCT GGG GCC TCA GTG AAG GTC TCC
V Q L V Q S G A E V K K P G A S V K V S
                47
                    49
                          151/51
TGC AAG ACC TCT GGA TAC AAC TTC ACC GGC TAC TCT GCT TCT GGA CAT ATC TTC ACC GCC
C K T S G Y N F T G Y S A S G H I F T A
          <----- CDR1 -----
181/61
                           211/71
TAC TOT GTG CAC TGG GTG CGA CAG GCC CCT GGA CAA GGG CTT GAG TGG ATG GGA AGG ATC
Y S V H W V R Q A P G Q G L E W M G R I
                           271/91
AAC CCT AAC AGT GGT GCC ACA GAC TAT GCA CAT AAA TTT CAG GGC AGG GTC ACC ATG TCC
N P N S G A T D Y A H K F Q G R V T M S
331/111
AGG GAC ACG TCC ATC AGC ACA GCC TAC ATG GAA CTG AGC AGG CTG ACA TCT GAC GAC ACG
R D T S I S T A Y M E L S R L T S D D T
                           391/131
GCC ATG TAT TAC TGT GCG AGA GCC GAC AAC TAT TTC GAT ATT GTG ACT GGC TAT ACT TCT
AMYYCARADNYFDIVTGYT
                   <----- CDR3 -----
421/141
                           451/151
CAT TAC TTT GAC TAC TGG GGC CGG GGA ACC CTG GTC ACC GTC TCC TCA GCC TCC ACC AAG
H Y F D Y W G R G T L V T V S S A S T K
481/161
GGC CCA TCG GTC TTC C
G P S V F
```

Figure 17

10/14

Krix-1 Variable light chain (SEQ ID NO: 3 and 4)

1/1									31/11												
ATG GAA													CTC	CCA	GAT	ACC	ACC	GGA			
M E	T	P	A	Q	L	L	F	L _	L	L	L	W	L	P	D	T	T	G			
<								Le	adeı	c								>			
61 /21	61/21											91/31									
GAA ATT	CTC	ጥጥር	ACG	CAG	יוייטיוי	CCA	GGC	ACC			ጥጥር	יזיריוזי	CCA	ccc	CAA	ACA.	ccc	NCC.			
E I	v	L	T	Q	S	P	G	T	L	s	L	S	P	G	E	R	A	T			
	•	_		-		_	•	_	_	_	_	-	-	•		••	**	•			
121/41									151,	/51											
CTC TCC	TGC	AGG	GCC	AGT	CAG	AGT	GTT	GCC	AGC	GCC	TAC	TTA	GCC	TGG	TAC	CAG	CAA	AAA			
L S	C	R	A	S	Q	S	V	A	S	A	Y	L	A	W	Y	Q	Q	K			
		<					CDF	1					>								
101/61										/=-											
181/61 CCT GGC	CAC	CCM	ccc	3.00	CITIC	CITIC	3 M/O	mam	211,		maa					~~ ~					
P G	Q	A	P	R	L	L	I	Y	GGT	GCA A	S	AGT S	AGG R	A	ACC T	D	I	P			
2 3	×		-				_				C				_	ע	_	F			
									•												
241/81									271	/91											
CAC AGG	TTC	AGT	GGC	AGT	GGG	TCT	GGG	ACA	GAC	TTC	ACT	CTC	ACC	ATC	AGC	AGA	CTG	GAG			
H R	F	S	G	S	G	S	G	T	D	F	T	L	T	I	S	R	L	E			
301/101	O3.55									/111											
CCT GAA	GAT.	F	GCA A	GTG V	Y	TAC Y	TGT														
F E	ם	E	A	٧	1	1	C	Q <	Q	Y	G 	т С	S	A 	L 	L 	т >	F			
								\				C	DRS				>				
361/121									391	/131											
GGC GGA	GGG	ACC	AAG	GTG	GAG	ATC	AAA	CGA			GCT	GCA	CCA	TCT	GTC	TTC	ATC	TTC			
G G	G	T	K	v	E	I	K	R	T	v	A	A	P	S	v	F	I	F			
421/141																					
CCG CCA																					
P P	S																				

Figure 17 (continued)

11/14

scFvLE2E9VLVH Q(His) (SEQ ID 25 and 26)

M	E	T	P	A	Q	ctt L	L	F	L,	L	cta L	L	W	L	P	D	T	T	G
E	att I	V	L	T	Q	tet S	P	G	T	L	tct s	L	S	P	G	E	R	A	T
L	tcc S	С	R	A	S	cag Q	S	V	A	S	gcc A	Y	L	A	W	Y	Q	Q	K
P	ggc G	Q	A	P	R	ctc L	L	I	Y	G	gca A	s	S	R	A	T	D	I	P
241, cac H	/81 agg R	ttc F	agt s	ggc G	agt S	ggg G	tet s	e aaa	aca T	271, gac D	/91 ttc F	act T	ctc L	acc T	atc I	agc S	aga R	ctg L	gag E
cct P	E	D	F	A	gtg V	tac Y	Y	С	Q	caa Q	¥	ggt G	T	S	gcc A	L	ctc L	act T	tto F
361, ggc G	/121 gga G	e aaa	acc T	aag K	gtg V	gag E	atc I	aaa K	cga R	391, ggt G	/131 gga G	ggc G	ggt G	tca S	ggc G	gga G	G	G	S
421,	/141 ggt	ggc	gga	tog s	cag Q	gta V	cag Q	ctg L	gtg V	451, cag	/151 tot	ggg	get	gag	gtg	aag	aag	cct	ggg
gcc						tge C		acc T	tet s	gga	/171 tac Y	caa	ttc F	acc T	ggc	tac Y	tet S	gct A	tct S
	/181 cat H	atc I	ttc F	acc T	gcc A	tac Y	tct S	gtg V	cac H	tgg	/191 gtg	cga R	cag	gcc A	cct	gga G	caa Q	g 333	ctt L

Figure 18

-	/201 taa	ato	gga	aaa	ato	aac	cet	880	agt		/211 gcc	aca	cac.	t= t	g02	cat	222	+++	cac
E	W	M	G	R	I	N	P	N	S	G	A	T	D	¥	A	H	K	F	Q
										1	MDJI	I							
	• • • •																		
-	/221										/231								
gge	agg R	y C	acc T	atg M	S	agg R	gac D	acg T	tcc S	atc	agc S	аса т	gcc	tac v	atg M	gaa E	ctg T.	agc	agg R
721,	/241									751	/251								
ctg	aca	tct	gac	gac	aca	gcc	atg	tat	tac	tgt	gcg	aga	gcc	gac	aac	tat	ttc	gat	att
L	T 	s 	D	D	T	A	M	Y	Y	С	A	R	A	D	N	Y	F	D	I
	/261	~~~					.				/271								
V	T	G	Y	T	S	H	Y	F	gac	Y	tgg W	ggc	cgg R	gga G	acc T		gtc		
841,	/281																		
		cat						_											
		H						*											
	>	<	I	ils (b) tag	g	>												

Figure 18 (continued)

13/14

RHD5 heavy chain variable region (SEQ ID NO: 29 and 30)

```
ATG GAC TGG ACC TGG AGG TTC CTC TTT GTG GTG GCA GCT GCA GGT GTC CAG TCC CAG
M D W T W R F L F V V A A A A G V Q S Q
<----> Leader peptide ----->
                           91/31
GTG CAG CTG GTG CAG TCT GGG GCT GAG GTG AAG AAG CCC GGG TCG TCG GTG ATG GTC TCC
V Q L V Q S G A E V K K P G S S V M V S
121/41
                           151/51
TGC AAG GCT TCT GGA GGC ACC TTC AGC AGC TTT GGT ATC AGC TGG GTG CGA CAG GCC CCT
C K A S G G T F S S F G I S W V R Q A P
          <---->
181/61
                           211/71
GGA CAA GGG CTT GAG TGG GTG GGA GGG ATC ATC CCT ATC TTT GGT ACA GCA AAC ACC GCA
G Q G L E W V G G I I P I F G T A N T A
                     <----- CDR2 -----
241/81
                           271/91
CGG AAC TTC CAG AAT AGA GTC ACC ATT ACC GCG GAC GAA TTC ACG AGC ACA GCC TAC ATA
RNFQNRVTITADEFTSTAYI
-----
301/101
                           331/111
CGA CTG AGG AGC CTG AGA TCT GAA GAT ACG GCC GTG TAT TAC TGT GTC GGC GGT CGA GAT
RLRSEDTAVYYCVGGRD
361/121
                           391/131
GCC TAC AGC TTT GAT GGT TTT GAT GTC TGG GGC CAA GGG ACA ATG GTC ACC GTC TCT TCA
A Y S F D G F D V W G Q G T M V T V S S
------ CDR3 ---->
GCC TCC ACC AAG GGC CCA TCG GTC TTC CCC
A S T K G P S V F P
<-----constant region-----
```

Figure 19

14/14

RHD5 Light Chain Variable Region (SEQ ID N0: 31 And 32)

1/1										31/:										
ATG	GCA	TGG	ATC	CCT	CTC	TTC	CTC	GGC	GTC	CTT	GTT	TAC	TGC	ACA	GGA	TCC	GTG	GCC	TCC	
M	A	W	I	P	L	F'	L	G	V	L	V	Y	С	T	G	s	v	A	S	
<							1	Leade	er pe	eptio	de								>	
61/:	24																			
•		CTTC	X Cm	CAC	CCA	030	max.	omo.	maa	91/3										
S	G	L	T	Q	CCA P	H	S	V	S	GTG V										
•	•		•	¥	-	**	3	٧	3	٧	S	P	G	Q	T	A	N	I	T *	
121	/41									151	/51						*		Ħ	
TGC	TCT	AGA	GAT	AAG	TTG	GGT	CAT	AAA	TTT			TGG	TAT	CAA	CAG	AAG	CCA	GGC	CAG	
C	S	R	D	ĸ	L	G	H	K	F	A	s	W	Y	0	0	K	P	G	Q	
	<				(CDR1					>			~	~		_	•	-	
	_																			
181,										211,										
TCC	CCT	GCT	CTT	CTC	ATC	TAT	CAA	GAC	AGC							CCT	GAG	CGA	TTC	
S	P	A	L	L	I	¥	_	D	S	K	R	P	S	G	I	P	E	R	F	
							<		(CDR2			>							
241	/Ω1									271	/01									
		TCC	AAC	тст	GGG	AAC	ACA	ccc	ልርጥ			» mc	3.00	000	300	030	com	* ==	a	
s	G	s	N	s	G	N	T	A	T	L	T	I	S	G	T	Q	A	ATG M	D	
		-		_	_	_,	_			_	-	_	•	•	•	¥	^	14	D	
301/	101									331/	/111									
GAG	GCT	GAC	TAT	TAC	TGT	CAG	GCG	TGG	GAC	AAC	ACC	ACT	GCC	GTA	TTC	GGC	GGA	GGG	ACC	
E	A	D	Y	Y	C	Q	A	W	D	N	T	\mathbf{T}	A	v	F	G	G	G	T	
					<				(>					
										*		*								
361/	/1 21																			
		202	cmc	CMB	3.Cm	~~~				391/										
K	L	T	V	L	AGT S															
		•	4		S <	Q				A	P	S	V	T	L	F	P	P	S	
											onst	ant	region							

Figure 19 (continued)